

# ABSTRACT

A sorting conveyor which having a cross sorter which can travel smoothly on a semicircular corner part of a traveling path. A large number of transporting units 1 are connected and travel  
5 on loop shaped transporting route in which an endless belt conveyor 2 provided at the respective transporting units 1 is driven in the direction perpendicular to the traveling direction at a sorting position. A chassis of the transporting unit consists of a beam shaped link 5 connectable to the front and  
10 rear ends thereof via connecting units 14, and a base 7 fixed to the center of the upper part of the link 5. A center guide wheel 8 is suspended from the connecting unit 14 of the end of the link 6 to come into contact with a guide rail of the transporting route. A traveling wheel 9 and a guide wheel 10  
15 are mounted adjacent to both ends of a base 7 to come into contact with a guide rail of both sides of the transporting route. The wheels 9, 10 travel along a circular excursion whose center is a focus point of the transporting route. The connecting unit 14 is assembled in such a manner that spacers are inserted  
20 detachably at end part of the link, and the connecting units support a shaft part of the center guide wheel 8 with a spherical sliding bearing.